

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Fluid product spraying device comprising a fluid product dispensing pump (10) operating without propellant gas and without active spraying means and a spray head (20) to actuate said pump (10) manually, wherein said device comprises dispensing detection means (30) to detect that a product dose has been dispensed, said detection means (30) being adapted to output a signal to inform the user that a dose of product has actually been dispensed by said pump; and

wherein said detection means comprises an expulsion detector adapted to detect the passage of the product in said an expulsion channel of the spraying device.

2. (previously presented): Device according to claim 1, in which the dispensing pump (10) is connected to a spraying orifice (40) through an expulsion channel (50), said detection means (30) being provided in said expulsion channel (50).

3. (canceled).

4. (currently amended): Device according to claim 3 1, in which said expulsion detector (30) comprises a pressure sensor adapted to detect the pressure difference at the time that a product dose is sprayed.

5. (previously presented): Device according to claim 1, in which said detection means (30) are connected to electronic means to process signals output by said detection means (30).

6. (canceled).

7. (currently amended): Device according to claim 1, in which said device is a nasal spraying device, and said pump configured with a spraying orifice that dispenses the product in a fine spray that is undetectable by the user, said detection means (30) informing the user each time that a product dose has been dispensed.

8. (previously presented): Device according to claim 1, wherein the dispensing pump operates without piezoelectric or electrostatic spraying mechanisms.

9. (previously presented): A fluid product spraying device comprising:
a fluid product dispensing pump;
a spray head to manually actuate the pump; and
a sensor that senses movement of fluid through the pump, thereby detecting that a product dose has been dispensed; and
electronics that output a signal based on information from the sensor to inform the user that a dose of product has been dispensed by the pump.

10. (previously presented): The device according to claim 9, wherein the sensor senses movement of fluid through an expulsion channel of the pump.

11. (previously presented): The device according to claim 9, wherein the pump operates without propellant gas and without active spraying means, including as piezoelectric or electrostatic spraying mechanism.